LLL	IIIIIIIII	BBBBBBBBBBBB	RRRRRRRRRRR	TTTTTTTTTTTTTTT	LLL
LLL	IIIIIIIII	BBBBBBBBBBBB	RRRRRRRRRRR	TTTTTTTTTTTTTTT	LLL
LLL	IIIIIIIII	8888888888	RRRRRRRRRRR	1111111111111111	III
LLL	III	888 888	RRR RRR	TTT	LLL
iii	îii	888 888	RRR RRR	ŤŤŤ	ili
ill	111	888 888	RRR RRR		
111	***	000 000		ĨĨĨ	LLL
LLL	111	BBB BBB	RRR RRR	III	LLL
LLL	111	888 888	RRR RRR	III	LLL
LLL	111	888 888	RRR RRR	111	LLL
LLL	III	8888888888	RRRRRRRRRRR	TTT	LLL
LLL	III	BBBBBBBBBBBB	RRRRRRRRRRR	TTT	LLL
LLL	ĪĪĪ	8888888888	RRRRRRRRRRR	TTT	iii
iii	ĪĪĪ	888 888	RRR RRR	ŤŤŤ	iii
iii	111	888 888	RRR RRR	tit	LLL
ill	111	888 888	RRR RRR		
	***	000 000		III	LLL
LLL	111	BBB BBB	RRR RRR	III	LLL
LLL	111	BBB BBB	RRR RRR	III	LLL
LLL	111	BBB BBB	RRR RRR	TTT	LLL
LLLLLLLLLLLLLL	IIIIIIIII	88888888888	RRR RRR	TTT	LLLLLLLLLLLLLLL
LLLLLLLLLLLLLL	IIIIIIIII	BBBBBBBBBBBB	RRR RRR	TTT	LLLLLLLLLLLLLLLL
IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	IIIIIIIII	88888888888	RRR RRR	ŤŤŤ	ILLLLLLLLLLLLLL

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	BBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBB	NN	\$	VV VV VV VV VV VV VV VV VV VV VV VV VV
	\$\$\$\$\$\$\$\$\$ \$\$\$\$\$\$\$\$\$\$\$ \$\$\$ \$\$\$ \$\$\$ \$\$\$			

Tal

LIB\$INSV - insert a variable length bit field 16-SEP-1984 00:12:09 VAX/VMS Macro V04-00 Page 0

(2) 49 DECLARATIONS
(3) 72 LIB\$INSV - insert a field

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16-SEP-1984 00:12:09 VAX/VMS Macro V04-00 6-SEP-1984 11:08:18 [LIBRTL.SRC]LIBINSV.MAR;1

Page (1)

.TITLE LIB\$INSV - insert a variable length bit field .IDENT /1-002/ ; File: LIBINSV.MAR

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; FACILITY: General Utility Library

ABSTRACT:

Insert a portion of the source into an area determined by the base, position, and size.

ENVIRONMENT: User Mode, AST Reentrant

; AUTHOR: Donald G. Petersen, CREATION DATE: 30-Dec-77

MODIFIED BY:

DGP, 30-Dec-77 : VERSION 00

01 - Original 1-001 - Update version number and copyright notice. JBS 16-NOV-78 1-002 - Add "\_" to PSECT directives. JBS 21-DEC-78

44

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LIBSINSV
1-002
                                               - insert a variable length bit field LIBSINSV - insert a field
                                                                                                                                              VAX/VMS Macro V04-00
[LIBRTL.SRC]LIBINSV.MAR:1
                                                                                                                                                                                                 (3)
                                                                                    .SBTTL LIB$INSV - insert a field
                                                       : FUNCTIONAL DESCRIPTION:
                                                                                   The field specified by the base, position, and size is replaced by bits size-i: 0 of the source. If the size is zero, no insertion is performed. A reserved operand fault occurs if a size greater than 32 is specified.
                                                                          CALLING SEQUENCE:
                                                                                   CALL LIBSINSV (src.rl.r, pos.rl.r, size.rbu.r, base.wv.r)
                                        00000004
                                                                                    SOURCE = 4
                                                                                                                                                   Adr. of source
                                        00000008
000000000
00000010
                                                                                   POSITION = 8
SIZE = 12
BASE = 16
                                                                                                                                                  Adr. of beginning position
Adr. of size to insert
                                                                                                                                                  Adr. of base to insert into
                                                                          INPUT PARAMETERS:
                                                                                   NONE
                                                                          IMPLICIT INPUTS:
                                                                                   NONE
                                                                          OUTPUT PARAMETERS:
                                                       0000
                                                       0000
                                                                   98
                                                                                   NONE
                                                       0000
0000
0000
0000
0000
0000
0000
0000
                                                                          IMPLICIT OUTPUTS:
                                                                  101
                                                                 102
                                                                                   NONE
                                                                 104
                                                                          COMPLETION CODES:
                                                                 106
                                                                                   NONE
                                                                          SIDE EFFECTS:
                                                                  109
                                                                                   SS$_ROPRAND - a reserved operand fault occurs if:
1.) a size greater than 32 is specified
2.) a position greater is greater than 31 and the field is in
                                                                                                            registers
                                              0000
                                                                                   .ENTRY LIBSINSV , AM< >
                                                                                                                                   ; Entry point
 10 BC
                         08 BC
                                                                                               asource(AP), aposition(AP), -
             OC BC
                                     04 BC
                                                 FO
                                                                                    INSV
                                                                 120
121
122
                                                                                               asize(AP), aBASE(AP)
                                                                                                                                               : insert source field
                                                 04
                                                                                   RET
```

.END

- insert a variable length bit field LIB\$INSV VAX/VMS Macro V04-00 [LIBRTL.SRC]LIBINSV.MAR; 1 Page (3) Symbol table = 00000010 00000000 = 00000008 = 00000000 = 00000004 BASE LIB\$INSV POSITION SIZE 01 SOURCE Psect synopsis PSECT name Allocation PSECT No. Attributes ABS 00000000 NOPIC LCL NOSHR NOEXE NORD NOWRT NOVEC BYTE NOWRT NOVEC LONG \_LIB\$CODE 00000000 USR CON Performance indicators Phase CPU Time Page faults **Elapsed Time** 00:00:00.07 00:00:00.35 00:00:00.22 00:00:00.00 00:00:00.16 00:00:00.01 00:00:00.02 00:00:00.83 00:00:02.33 00:00:04.44 00:00:02.96 00:00:00.00 00:00:00.00 Initialization Command processing 64 Symbol table sort Pass 2 Symbol table output Psect synopsis output 00:00:00.02 Cross-reference output Assembler run totals 00:00:10.63 The working set limit was 750 pages.
1169 bytes (3 pages) of virtual memory were used to buffer the intermediate code.
There were 10 pages of symbol table space allocated to hold 5 non-local and 0 local symbols.
122 source lines were read in Pass 1, producing 10 object records in Pass 2. O pages of virtual memory were used to define O macros. Macro library statistics ! Macro Library name Macros defined 0 \_\$255\$DUA28:[SYSLIB]STARLET.MLB;2

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Th

O GETS were required to define O macros.

There were no errors, warnings or information messages.

MACRO/ENABLE=SUPPRESSION/DISABLE=(GLOBAL, TRACEBACK)/LIS=LIS\$:LIBINSV/OBJ=OBJ\$:LIBINSV MSRC\$:LIBINSV/UPDATE=(ENH\$:LIBINSV)

0208 AH-BT13A-SE

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